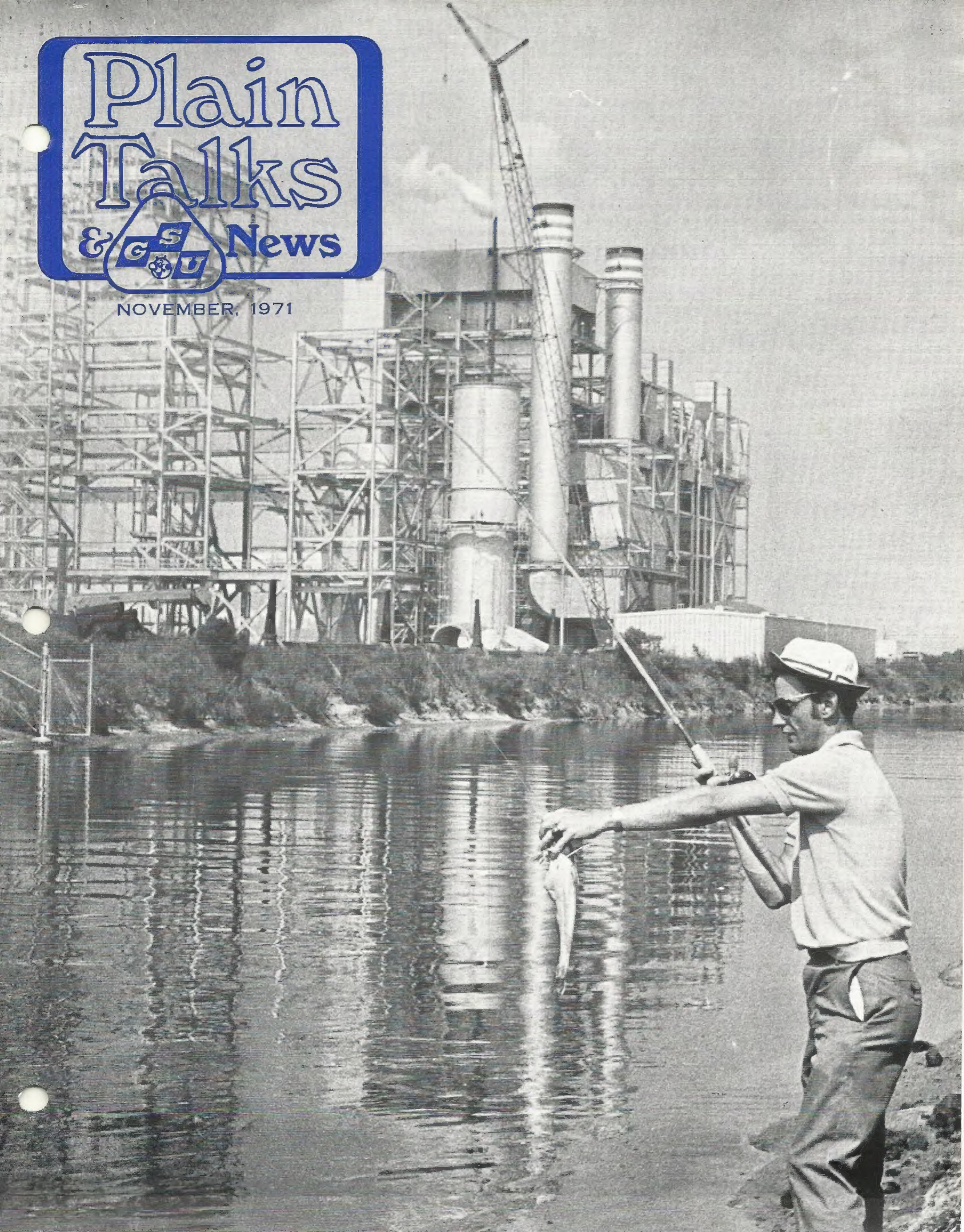


Plain Talks & News

NOVEMBER, 1971



"...fit and proper..."

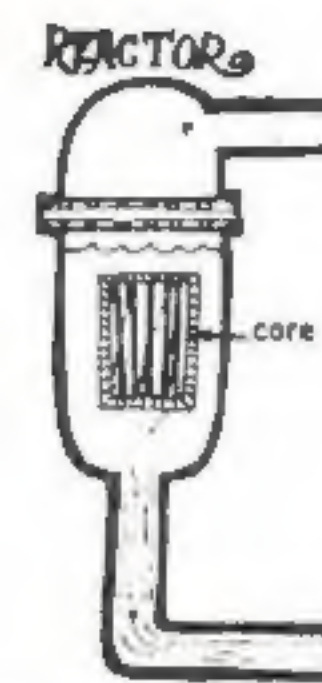
November is the month of Thanksgiving. A month when this nation, as a whole, takes a day to officially recognize the good things of life that we have through the grace of God.

George Washington proclaimed a national day of thanks in 1789, but our present day practice did not come about until 1863 when the then President of the United States issued this proclamation:

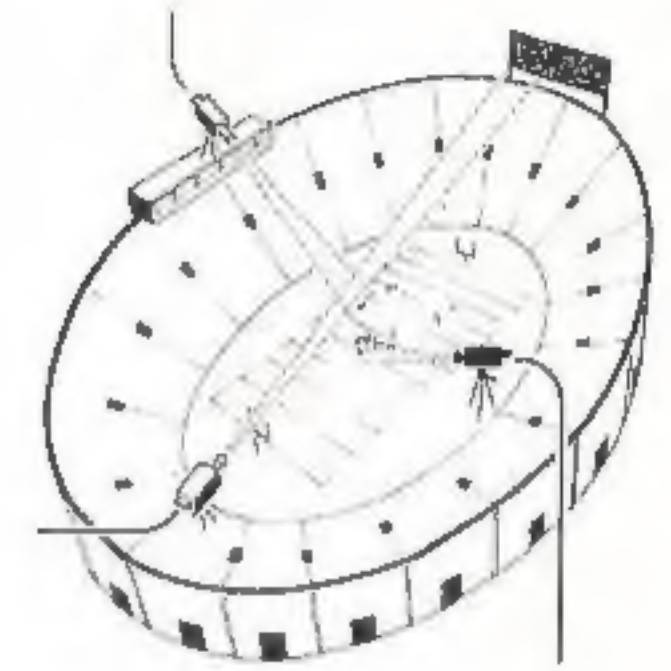
"The year that is drawing to its close has been filled with the blessings of fruitful fields and healthful skies. These bounties are so constantly enjoyed that we are prone to forget the source from which they come.

It has seemed to me fit and proper that they should be solemnly, reverently, and gratefully acknowledged as with one heart and one voice by the whole American people."

—Abraham Lincoln
1863



Reactors p. 2



Replay p. 10

<i>Looking at Reactors</i>	2
<i>Flu Shots</i>	7
<i>Experiment At Sabine Station</i>	8
<i>Instant Replay</i>	10
<i>GSU News</i>	12
<i>Retirements</i>	15
<i>Promotions</i>	16
<i>Service Awards</i>	18
<i>Letters</i>	20
<i>Coffee Cup</i>	22
<i>Welcome Aboard</i>	24

Published Monthly By
Public Relations Dept.

GULF STATES UTILITIES CO.

P. O. Box 2951
Beaumont, Texas 77704

James S. Turner, Director, Public Relations
Pat McMeel, Associate Editor
Jim Harper, Contributing Editor
Henry Joyner, Contributing Editor,
Baton Rouge

Member:



OUR COVER:

Ecology and Environment are two subjects much discussed in the news today. Plain Talks Editor Pat McMeel was used as the subject in this picture taken by Wally Sisk, advertising representative, to point out that our company is vitally concerned with ecology, environment and much more. See story on page eight.

Nuclear Power Is Answer To Problem

The growing lack of availability of fossil fuels, such as gas and low sulphur oil have dictated that the electric industry must find another way to provide for the growing demands of this expanding nation -- nuclear energy seems to be that answer.

An electric generating facility, one that produces its own fuel and releases more energy than it consumes, has been an important goal for years for companies like ours and research and development organizations. Just recently this goal was given added emphasis when President Nixon publicly committed the federal government to the promotion of a fast-breeder reactor.

Electric utilities companies, such as our own, have for some time put forth a great deal of effort and money in the research and development of various types of nuclear reactors. In our case we are specifically interested in the experimental fast breeder reactor (FBR) which produces fuel as part of the process of generating power.

Both President Nixon and President Floyd Smith have been very busy of late working in this particular area.

President Nixon publicly reaffirmed that the federal government is promoting the development of the fast breeder reactor. Speaking in Richland, Wash., Mr. Nixon said that the Atomic Energy Commission, in conjunction with the electric utilities industry, is and would continue to construct, test facilities that will lead to the production of abundant nuclear energy that is both inexpensive and non-polluting.

At almost the same time Mr. Nixon was in Richland, Mr. Smith was in West Germany meeting with other representatives of the 16-member Southwest Atomic Energy Associates (SAEA) at Karlsruhe.

Floyd Smith, president of our company, has been elected president of the board of trustees of the Southwest Atomic Energy Associates at a meeting of the SAEA last month in Karlsruhe, West Germany.

Mr. Smith succeeds J. Robert Welsh, retired board chairman of Southwestern Electric Power Company of Shreveport, Louisiana. Mr. Welsh had been SAEA president since its formation 14 years ago. Mr. Smith has served as executive vice president since last year.



Mr. Smith

The primary purpose of this meeting was to decide whether or not the SAEA would extend for six years its participation in sponsorship of the experimental and development program being conducted at the Southwest Experimental Fast Oxide Reactor (SEFOR) at Fayetteville, Ark. The SAEA, General Electric Company and Gesellschaft fur Kernforschung (GfK) all help fund the SEFOR project. The U. S. Atomic Energy Commission finances the experimental phase of the project. The SAEA board and West Germany have directed their officers to begin negotiations with GE and AEC to continue the project which has as its ultimate goal, the development of a reliable, low-cost nuclear fuel supply for power plants.

"The work at SEFOR has established that the 'fast breeder' reactor is safe and is the most promising reactor for the near future that is capable of extending the known supply of uranium from 40 years to several hundred years," said Mr. Smith.

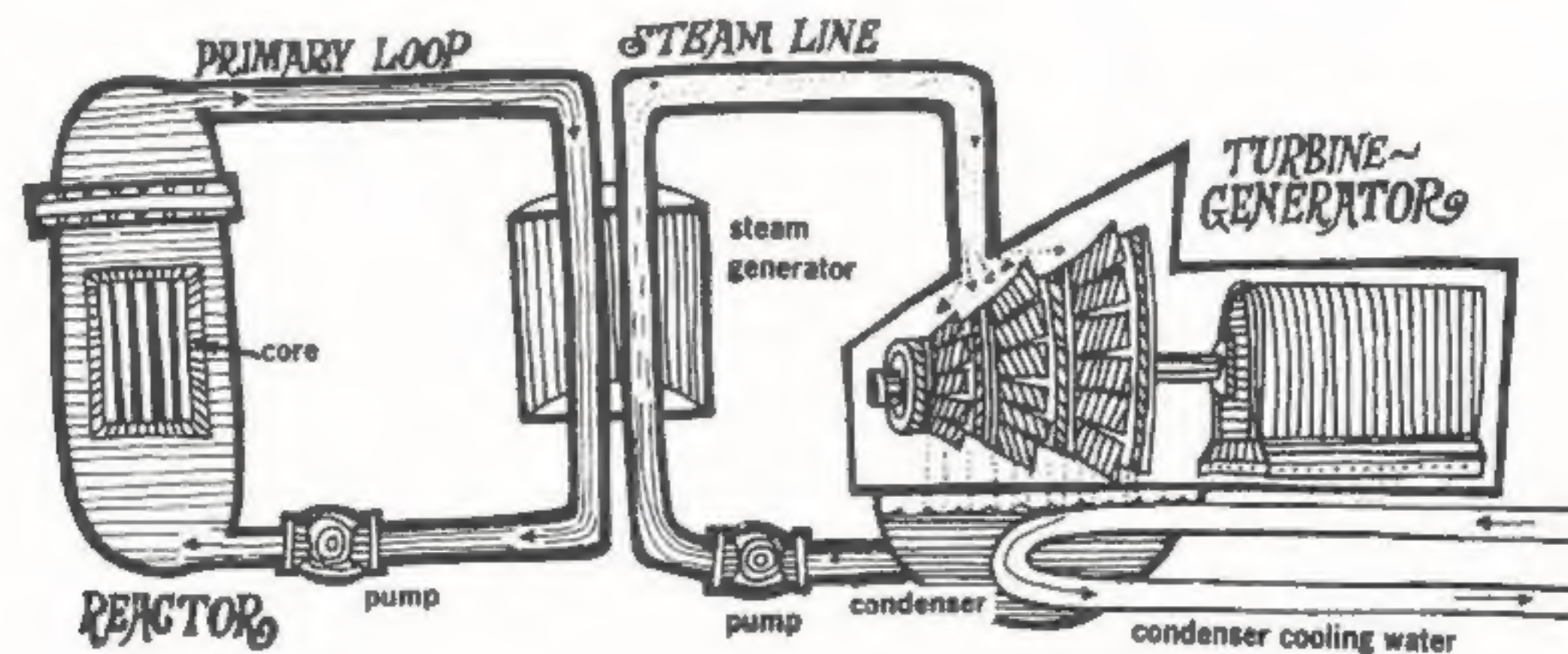
Mr. Nixon cited the fast breeder program as a potential source of clean, abundant energy, and stressed the need for continued all-out efforts toward the culmination of the goal.

Our company earlier this year made public the knowledge that we are planning to enter the nuclear generation field. It is hoped that our first nuclear power station will be operable by the late 1970s. Thousands of steps must be taken before this nuclear plant becomes a reality. Work has begun on these steps, and one of the major questions is what kind of nuclear power plant to build.

As of this writing, we are evaluating bids on both a Pressurized-Water Reactor (PWR) and the Boiling-Water Reactor (BWR).

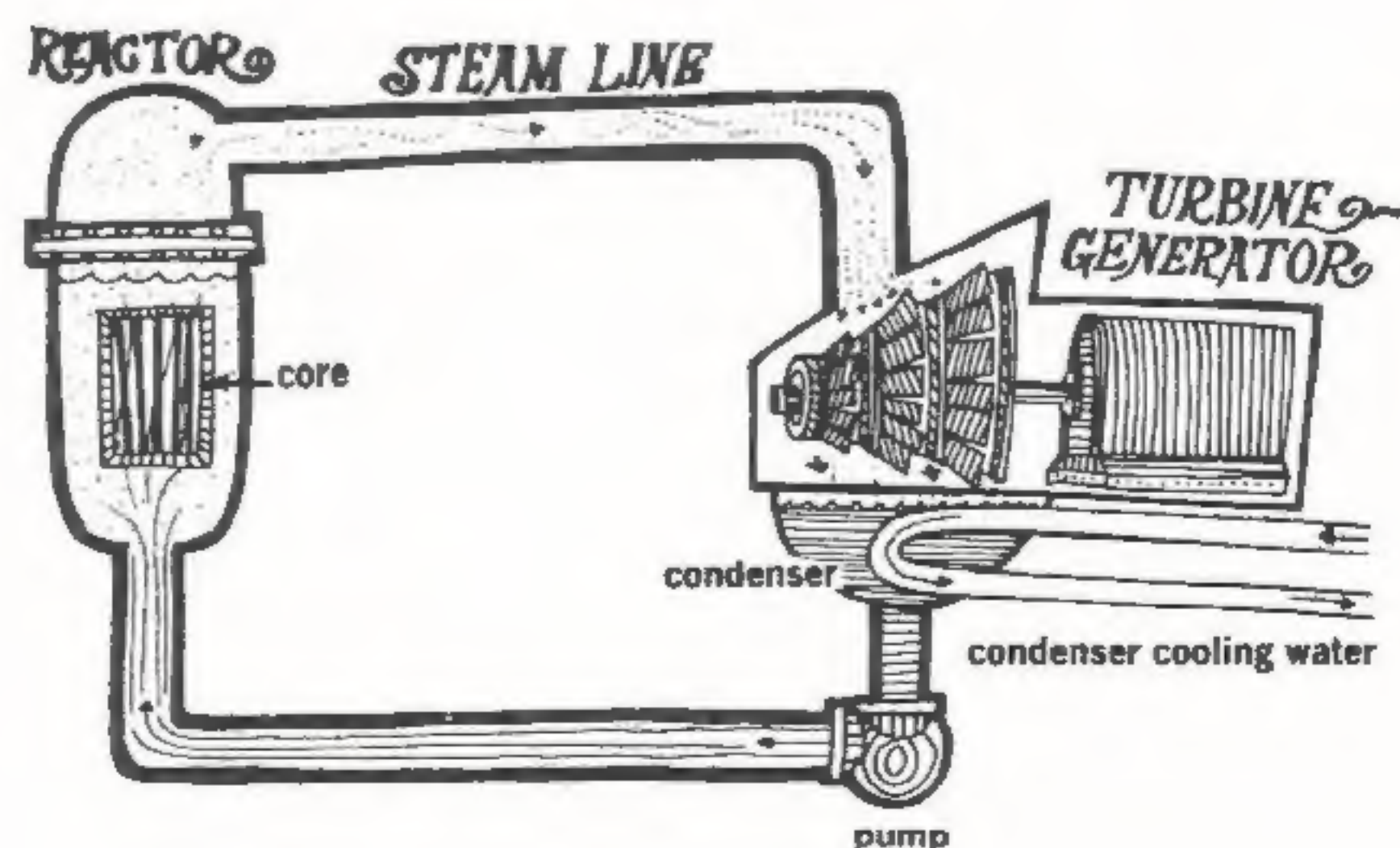
PRESSURIZED-WATER REACTOR

The PWR uses ordinary water as a coolant and moderator (the moderator is the material that has the ability to slow down neutrons). This water is kept under enough pressure to prevent bulk boiling in the reactor vessel itself. The steam to run the turbo-generator is produced in a separate unit of equipment called the steam generator. (See diagram below)

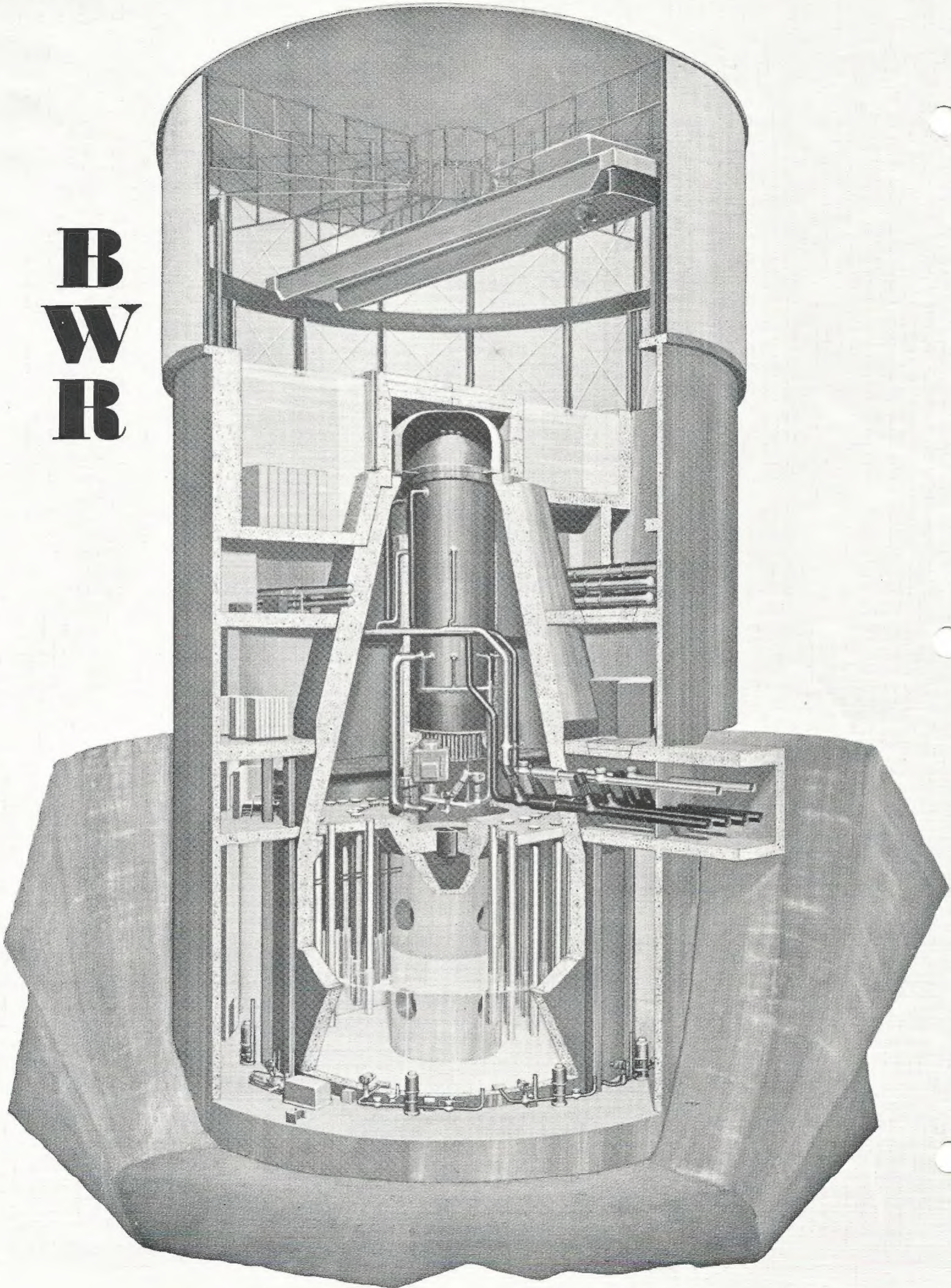


BOILING-WATER REACTOR

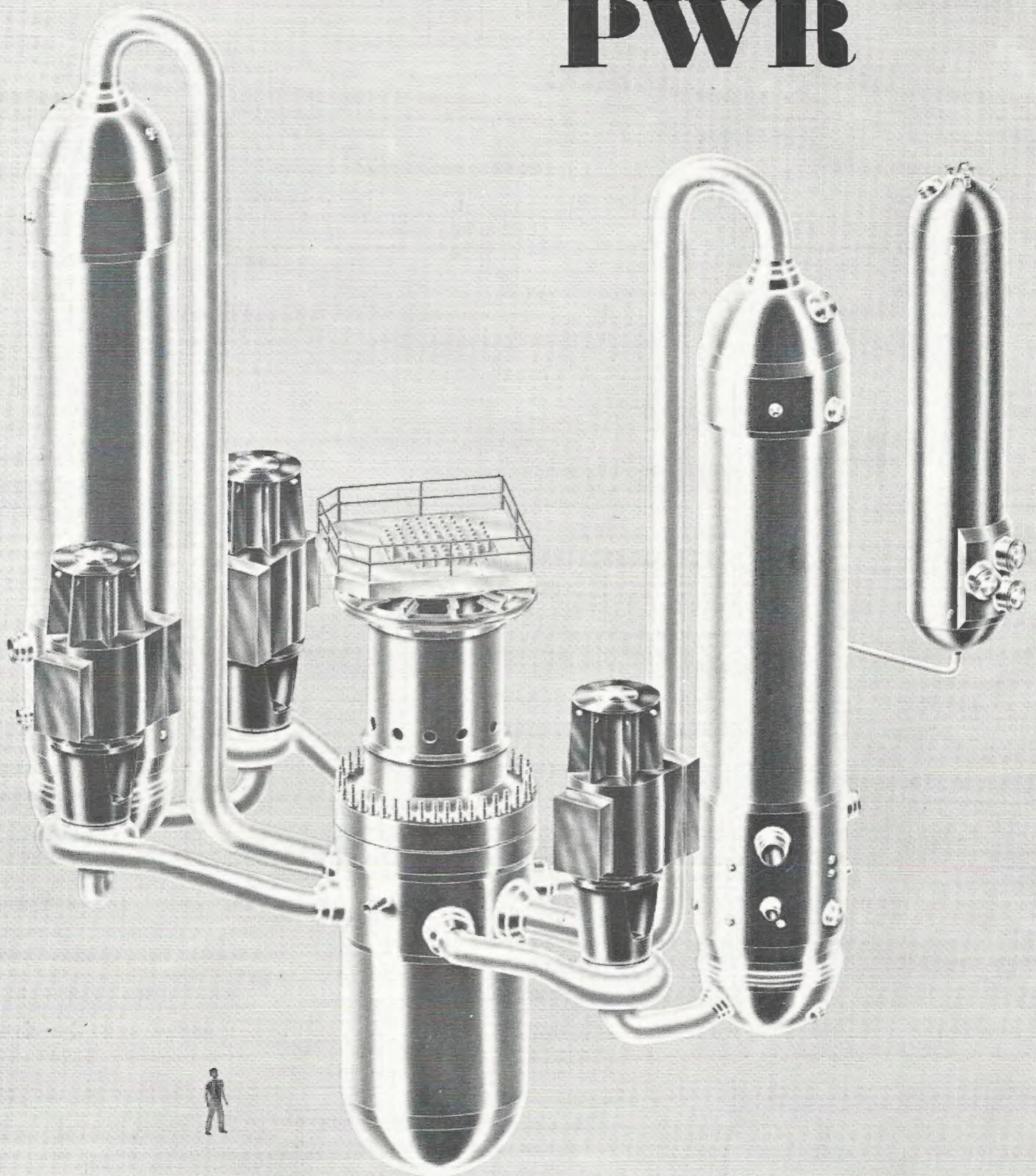
In the BWR the steam is produced in the reactor itself for direct delivery to the turbo-generator, and the steam generator step as seen in the PWR is eliminated. This is the major difference in the two types of reactors. (See diagram below)



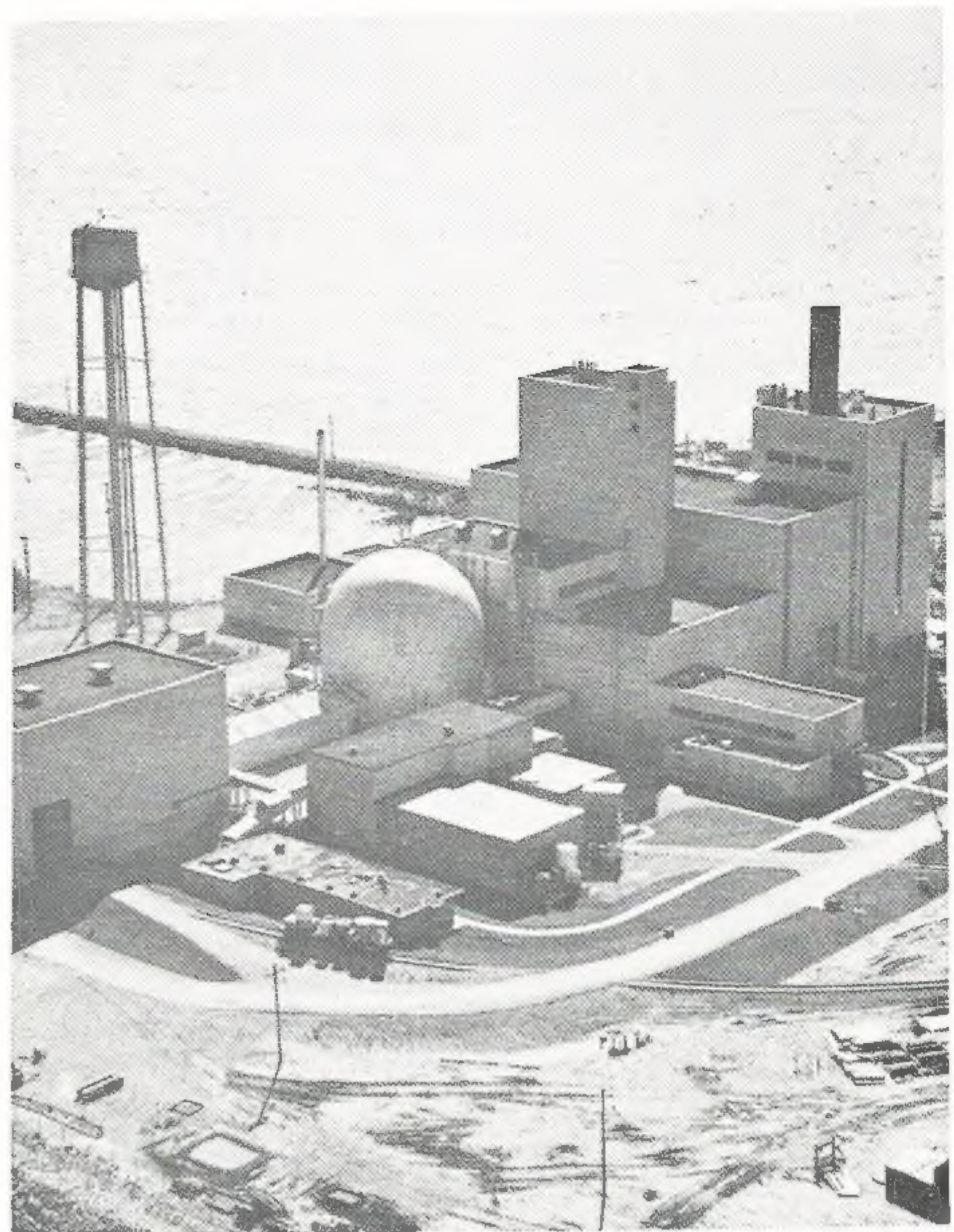
**B
W
R**



PWR



The Enrico Fermi nuclear power plant in Michigan is the only Fast Breeder reactor plant currently in commercial operation. The Fast Breeder is the type reactor that manufactures its own fuel as part of the generating process and is currently undergoing extensive investigation by research and development organizations such as SEFOR.



S. L. Adams, senior vice president, Engineering and Production, said that both reactors are quite capable of giving clean, reliable service. Mr. Adams went on to say that no definite decision has been made as yet as to which reactor route the company will take. Other nuclear plants in operation around the nation are just about equally divided, with half using the BWR and half using the PWR.

In the area of safety, two questions that are among the first asked are:

1. Can a nuclear reactor blow up like an atomic bomb?

No. The design principles of the two are completely different. The major reason that such an explosion is impossible is in the fuel itself. The amount of fissionable material which maintains a chain reaction amounts to only three or four percent of the total quantity of fuel in a power plant. In the atomic bomb this percentage ratio is almost 100 percent. Still another reason is that the rate which the fuel undergoes nuclear fission is regulated by control rods and other safety features in the power plant. In the bomb it is the uncontrolled chain reaction that results in the explosive force.

2. What about radioactivity contamination?

Radioactivity has been with us since creation. It is everywhere; earth, air, water, plant and animal. The amount of radiation a person working in a nuclear power plant would receive is less than that of a passenger who flies from New York to Los Angeles and back in a jet airplane.

Fission products account for nearly all the radioactivity in most power reactors, so they must be contained by multiple barriers to protect the operators and the public. Special equipment is included in the plant to insure safe shutdown and confinement of dangerous materials.

Some of this special equipment includes fuel cladding, which keeps fission products locked in the fuel; the reactor vessel itself, and a special steel and concrete containment vessel which houses the reactor.

There are many other safeguards, not the least of which are extremely strict inspections by the AEC on a regular basis. According to Mr. Adams, throughout the design, construction and operation of the plant, these inspections are maintained with the AEC taking an active role in looking after the public interest in the generation of safe nuclear energy.



Just Like The Army



Ha Ha Ha . . . OUCH!



Wait Till YOUR Turn



Make It Quick



Ooooooh!



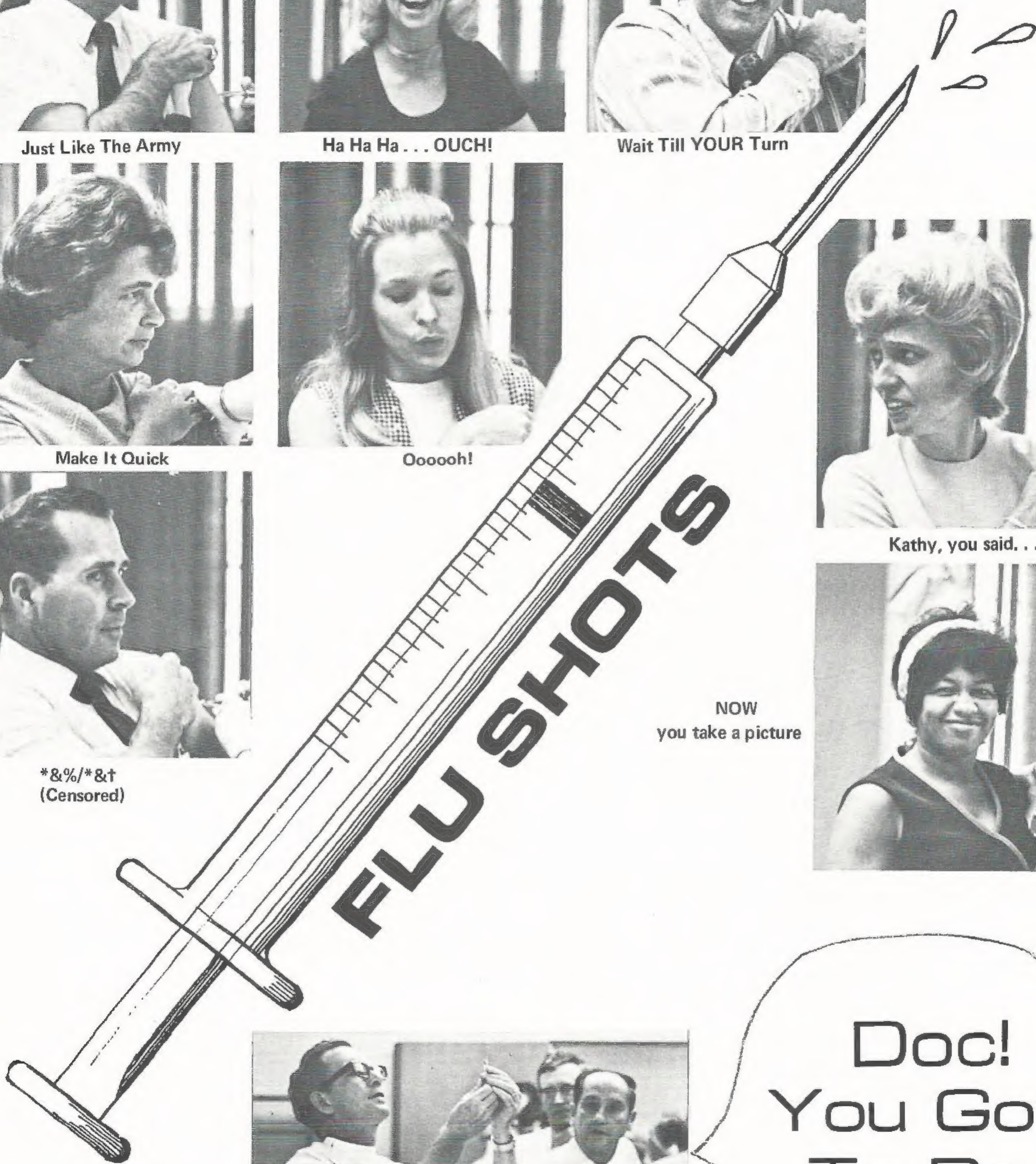
&%/&†
(Censored)



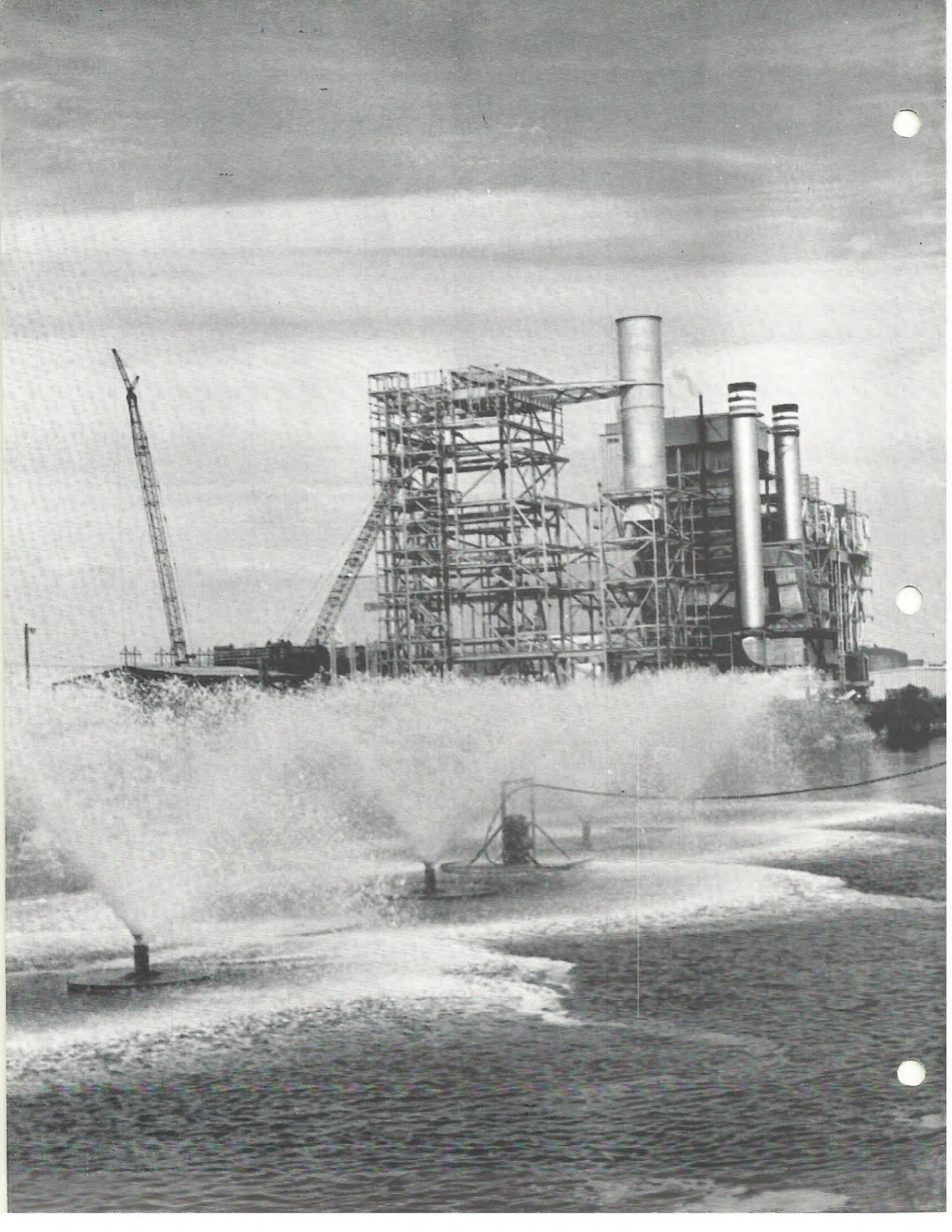
Kathy, you said. . .



NOW
you take a picture



Doc!
You Got
To Be
Kidding!



The Sabine Station Experiment

Conscious of its role as a good neighbor, coupled with an awareness of growing environmental concern, our company has undertaken an unusual experiment dealing with the warm water discharge at Sabine Station.

Thermal discharge, the expulsion of heated water from power plants into natural waterways, has come under attack in some areas of the nation, especially in the Northeast section of the country. The argument is that this heated water upsets the ecological cycle of our natural waterways.

This problem of warm water discharge upsetting natural environment has not been a problem within our service area, nor does it involve many other utilities companies.

One way to make sure that we never do come under such attacks is to maintain a constant vigil of our discharges, and to continually work toward improving our current cooling techniques. Such is the purpose of the Power Spray Module, presently undergoing tests at Sabine Station.

Built by the Ceramic Cooling Tower Co. of Fort Worth, each spray unit consists of a pump and four sprays. Simply stated, the unit works much like a vacuum cleaner in that the pump sucks up the heated water and distributes it to the sprays.

Each unit (two units are in operation at Sabine) is approximately 120 feet long, and is capable of sucking up and blowing out 10,000 gallons of water each minute. Multiply this by 60 minutes and you have some 600,000 gallons of cooled oxygenated water coming out of each unit. If you like to play with figures, that comes out at 28,000,000 gallons every 24 hours.

Ed Loggins, superintendent at Sabine Station, said the idea of experimenting with the module (we are the first in this part of the country to do so) was that of the construction department headed by Jim Derr. Charley Lopez and Tom Crowe engineered the project. The only other utilities company we know of that is experimenting with the Power Spray Module is Virginia Electric Power Co.

If the experiment continues to prove successful it could pave the way toward an entirely new concept in thermal discharge technique, with a low risk level of upsetting the ecological cycle of our natural waterways.

One of television's most popular features (at least among football fans) is "instant replay." Indeed, many an armchair quarterback has found live games disappointing without the opportunity to see plays over again from several angles.

Since its introduction some four seasons ago, "instant replay" has become part of the language. Books, records, children's games, even soft drinks have appeared bearing the name.

Though most people know what it is, not many could tell you how it is done. Here, courtesy of Ampex Corporation, which invented video recording and the specialized instant replay machines, are the facts.

In the early 1960s, instant replays were attempted with videotape recorders, which record television programs on large reels of magnetic tape for immediate or later broadcasting. (Most of the shows we see on television are aired from such recorders). But there were two problems: tape takes time to rewind and locate the start of a play, more time than is available between plays and commercials. In addition,

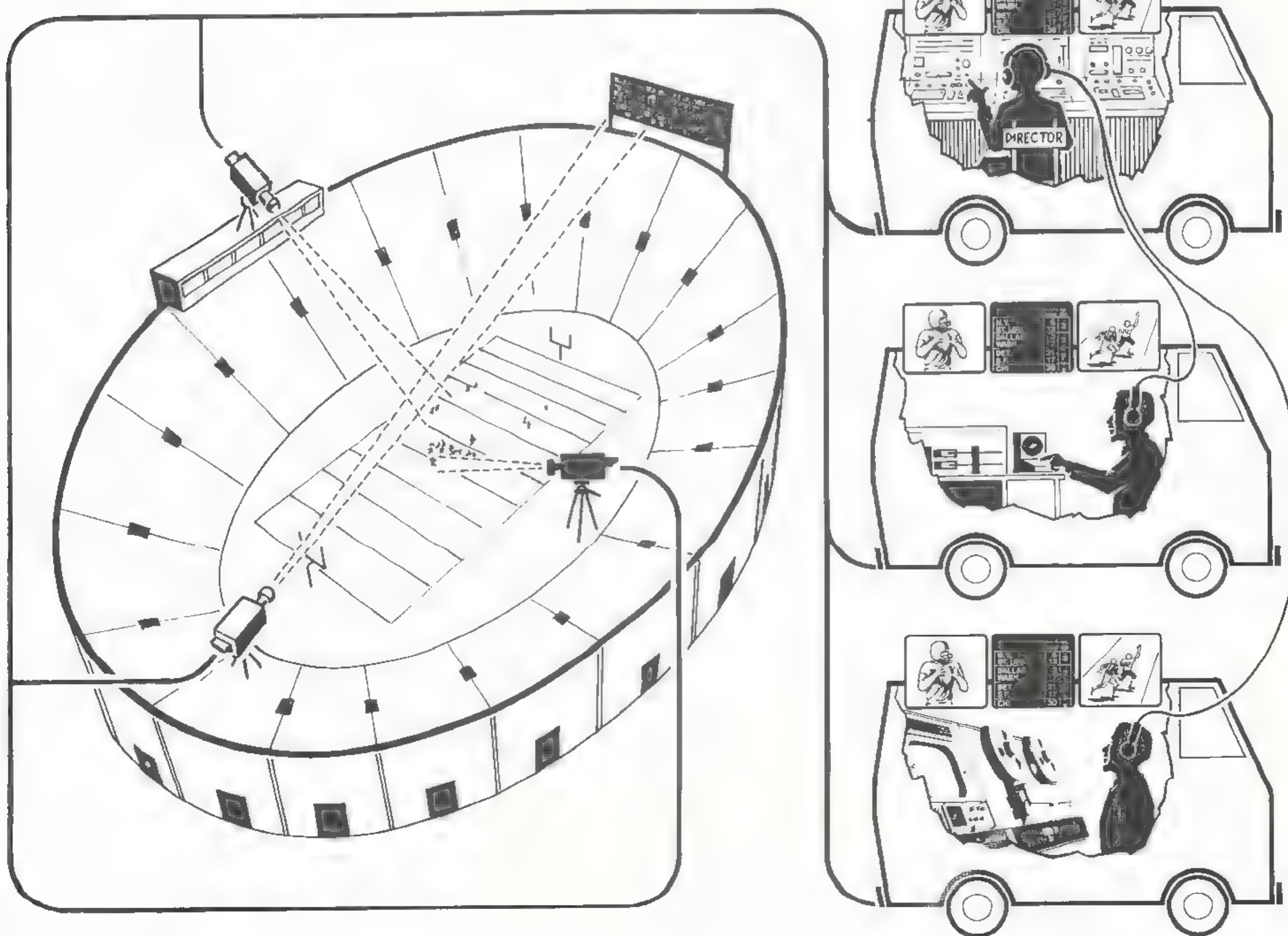
studio videotape recorders are not capable of slow motion or stop action playback.

To solve these problems, a special video recorder was developed in 1967 that uses two shiny aluminum disks (coated with various alloys of tin, nickel, cobalt and rhodium) instead of reels of tape.

The disk recorders can record only 30 seconds of television action at a time, compared with an hour for a reel of tape. But they can locate the start of a play in less than four seconds, and provide immediate playback in normal or slow motion or freeze the action at any point. Since no football play lasts longer than 30 seconds, the 16-inch disks work out fine.

Each instant replay machine costs \$100,000, and more than 100 have been bought by networks and television stations, almost exclusively for sports instant replay (though some versions are used for editing fast-paced shows like *Laugh-In*).

In an important game, as many as three instant replay machines are used. Each is capable of recording the action from one of up to eight cameras

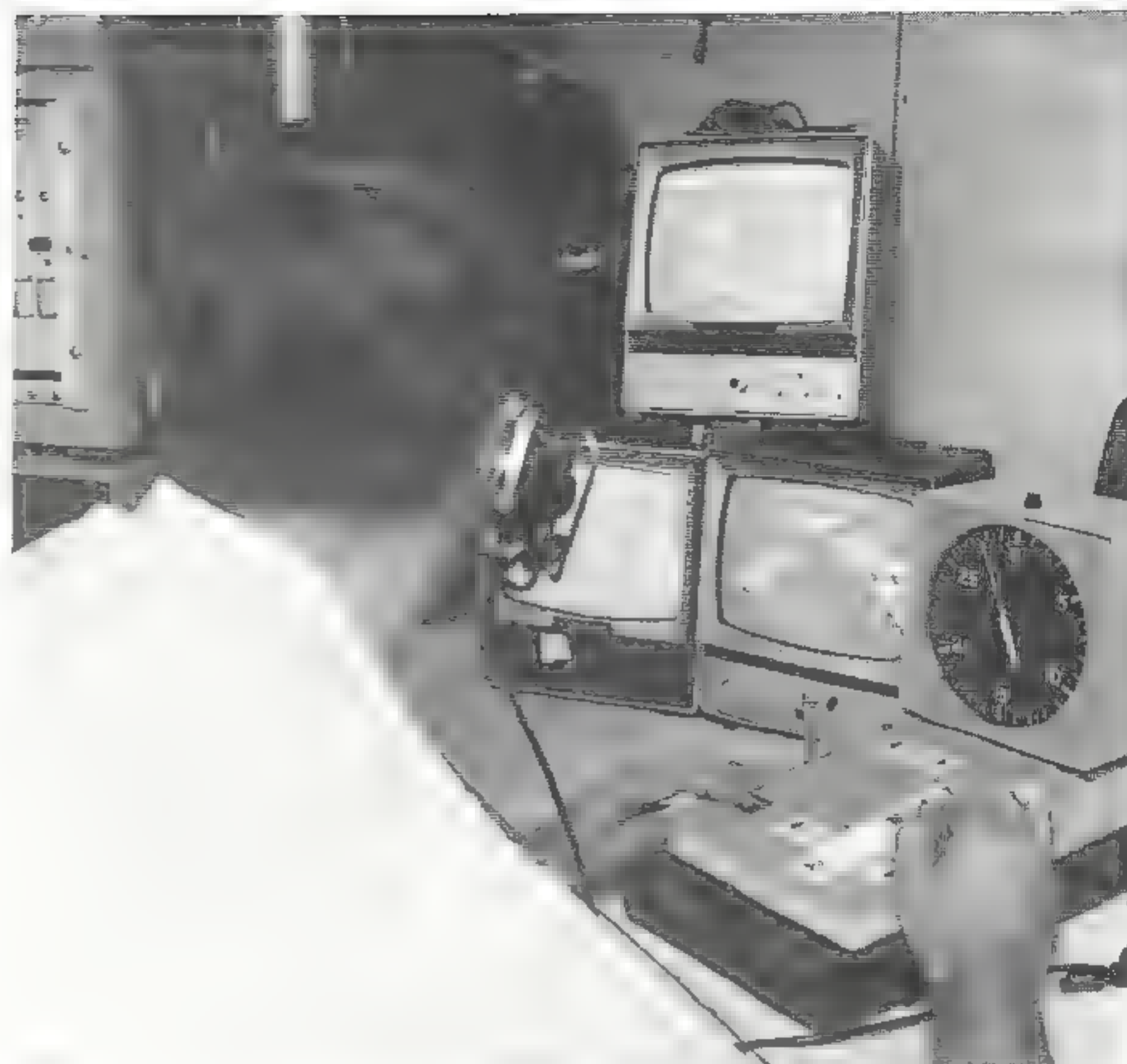


located in different parts of the stadium. The cameras beam live pictures into a bank of television monitors in a van parked outside the stadium. From these eight sources, a director in the van chooses what goes on the air. He can talk by telephone with the cameramen, the instant replay recorder operators and the technical director, who pushes the buttons that select which camera view is aired.

With a word from the director, the instant replay operator can re-show a long run, touchdown pass or close-up line action at normal speed, slow motion or stop action. He can, however, record from only one pre-selected camera at a time.

So, if the cameras feeding two instant replay recorders are close-up on the flanker and the fullback, and the play is a short pass to the tight end, you may not see a close-up instant replay.

Like the defensive captain, the television director tries to anticipate what kind of play is coming up. Experienced directors, with several disk recorders at their disposal, have high instant replay completion percentages. But they sometimes guess wrong. A quarterback who can't fool a TV director now and then isn't going to be on television very often anyway.



Instant Replay

A discovery of Ampex, the instant replay disc has become an indispensable aid of TV networks in proving that the armchair quarterback isn't always right.



GSU NEWS

Joe Bondurant Named New Division Manager



Joseph E. "Joe" Bondurant, formerly Lake Charles operating superintendent, has moved up to the division manager's post.

Mr. Bondurant, an employee since 1957, started out as an engineer in Beaumont T&D. Advancing to division engineer at Beaumont in 1966, he was promoted to operating supervisor at Lake Charles the following year, then to operating superintendent in 1969.

Born in Fulton, Ky., Mr. Bondurant attended Georgia Tech where he received his bachelor's degree in electrical engineering. He also has completed the University of Michigan's advanced management program.

Mr. Bondurant is a member of the Lake Charles Rotary Club.

Married to the former Sarah Garner of Atlanta, Ga., Mr. Bondurant and his wife have two children, Alyson and Tammy. The family attends St. Luke's United Methodist Church in Lake Charles.

Minority Whip Levels Blast At Red Tape

Senator Robert Griffin (R-Mich.), Senate Minority Whip, recently leveled a verbal blast at the "delaying tactics" he says are impeding the construction of nuclear power plants.

In a letter to President Nixon, the Michigan republican urged that the President set up a reviewing procedure for the Atomic Energy Commission's licensing machinery. The AEC, according to Senator Griffin, is operating under "cumbersome and outmoded licensing procedures" which result in unnecessary red tape delays in completion and operation of the nation's nuclear power plants.

Senator James Eastland (D-Miss.), Chairman of the Senate Judiciary Committee, joined his colleague in the fight. The southern democrat urged Congress to review the country's environmental laws to see if they are hindering needed developments, including electric power.

In his letter, Senator Griffin called upon the President to take immediate steps to rectify the situation saying that "... delays of months and years are intolerable while hundreds of millions of dollars worth of installed electric generating capacity stands idle. This power is vitally needed if we are to avoid the brownouts and blackouts."

Don R. Clawson, drafting supervisor in Engineering Design in Beaumont, has been appointed to serve as a member of the Lamar University Advisory Committee to the School of Technical Arts.

Mr. Clawson will serve for a maximum of three years. His appointment came with the recommendation of G. A. Carlson, director of the School of Technical Arts.

The appointment was officially announced by Thomas T. Salter, vice-president of Extended Services.

Don Clawson Appointed To Advisory Staff

Our company's board of directors took the first step toward financing the firm's 1971-75 construction program dictated by continued increasing demands for electricity.

The board, meeting at company headquarters in Beaumont, authorized the issuance and sale of \$35,000,000 of a new series of first mortgage bonds and two million additional shares of common stock.

Construction requirements for the next five years are 56 percent greater than the outlay for the years 1965-70. This growing cost for operations and facilities recently prompted the company to request public rate regulatory bodies in

Texas and Louisiana for a general increase in electric rates.

Municipalities in Texas and Louisiana Public Service Commission are still considering the rate request, although the increase cannot become effective while President Nixon's wage-price control order remains in effect.

The financing proposed must be approved by the Federal Power Commission and the Securities and Exchange Commission. Sale of the new bonds and common stock would be at competitive bidding, with bids expected to be opened in New York City early this month.

Proceeds from the financing will be used to pay off approximately \$64,000,000 of outstanding short-term

bank notes and commercial paper which has been used as interim financing to provide part of the funds for the construction program. The balance of the proceeds will be added to the company's general funds to be used, among other things, for the construction program.

Floyd Smith, company president, served as chairman of the meeting. Other directors present were Samuel L. Adams, Norman R. Lee, John J. Morrison, Joseph R. Murphy, Roy S. Nelson, Benjamin D. Orgain and Glenn E. Richard of Beaumont; Harrell R. Smith and Oliver P. Stockwell of Lake Charles; Eldon A. Werner of Baton Rouge; Fred V. Wilson of Port Arthur and Seth W. Dorbandt of Conroe.

H. H. Reed, district superintendent in Jennings, has been elected president of the Jennings Association of Commerce. Mr. Reed's election came during a recent meeting of the board of directors.

First Step Taken

Deaths



William Gibbs

William M. Gibbs, retired line foreman in the Lake Charles Division, died Oct. 23 in a Lake Charles hospital. He was 71 years old.

Mr. Gibbs had retired from the company in 1965 after 36 years of service.

His entire career with the company was spent in Lake Charles with the exception of a 10 month period in Jennings.

A native of Greeley, Neb., Mr.

Gibbs had lived in Lake Charles for the past 42 years. He was a veteran of World War I, and a member of the American Legion and the Veterans of Foreign Wars.

Surviving him are his wife, the former Willie Mae Grafton; three sisters, Mrs. Laura G. Brian of Dallas, Mrs. Erma G. Woods of Logan, Iowa, and Mrs. Francis E. Bepue of San Antonio. He had numerous nieces and nephews.

Company Ad Named Best In Nation

One of our company's television advertisements was selected as the first place winner in a national contest concerned with the preservation of the environment.

The announcement came from Atlanta, Ga., at a meeting of 50 utilities companies from throughout the nation who participated in the industry's public information program.

Jim Turner, director of the Advertising-Public Relations Department, attended the meeting and accepted the award.

The commercial, entitled "Doing Something About It," depicts a teenaged girl who represents youth's concern about the environment and refers to the programs being carried out by our company.

Aylin Advertising Agency produced the commercial, with photography under the direction of J. D. Fiegelson.



General Electric and LPS were just two of the many electric distributors across the system to participate in the annual Industrial Electric Products Fair sponsored by our company. The fairs were held in Baton Rouge, Lake Charles and Beaumont.

The fairs are a way of displaying new innovations in the industry, letting the public see what these innovations are, and help maintain a close working relationship between our company and the distributors.

Electra-Living Carnival

Big Success

Thrift Plan

Purchases of Gulf States Utilities Company stock made by the Trustee during October, 1971 covering employee deductions and company contributions through September, 1971 were as follows:

6,936 shares of common stock at a total cost of \$152,472.09 or an average cost per share of \$21.9827.

193 shares of \$4.40 preferred stock at a total cost of \$12,165.93 or an average cost per share of \$63.0359.

The Trustee deposited \$40,608.93 with the Savings Department of the First Security National Bank.

"HURry, HURry, HURry, step right in ladies and gentlemen for the Electra-Living Carnival." Gene Pairett, residential salesman, may not have used those exact words while barking for the show during the South Texas State Fair, but the people did step in, and the show was a big hit on the midway.

The Home Service Department provided the personnel for the show, along with a lot of hard work and cooperation from the Beaumont and Port Arthur Division Sales departments.

The carnival was held each night during the fair, with a packed house on hand for every performance. That means over 200 people each night witnessed a variety of demonstrations, skits and other

entertainment all aimed at living better-electrically.

Home Service Advisor, Sharon Smith, Sue Kendall, Sue Williams, Kathleen Peters, Marianne Nelson, Joanne Smith, Edith Jordan and Beth McLauchlin performed on the stage at the Harvest Club on various nights. Mildred Tribble, home service coordinator and Gene Tillery, director of the carnival, both announced the show to be a complete success.

The various skits such as "The Magic Kitchen, Going Places and Karnival Kapers," kept the audience laughing and learning about the advantages of electricity in the home.

This has become an annual event at the fair and plans are already in progress for next year's event.

Retirements

C. W. "Connie" Winborn plans to take life slow following his retirement Nov. 1, after 43 years of service with the company.

"First I want to see how it feels," said Mr. Winborn, "then I'll go from there."

An employee since 1928, Mr. Winborn retires as Western Division sales supervisor. Starting out at the Huntsville office, he also has served in various positions at Conroe, Nederland, Beaumont, Navasota and Baton Rouge. He has been division sales supervisor since 1955.

Mr. Winborn is a native of Madisonville, Texas, and graduated from high school there. He attended Sam Houston State University at Huntsville for two years.

A tireless civic worker, Mr. Winborn is president and a director of the Navasota Kiwanis Club and a member of the Navasota Chamber of Commerce. He also serves on the board of directors for the Grimes County United Fund.

Mr. Winborn is a recipient of the Silver Beaver Award for adult leadership in scouting. He is chairman of the advancement committee for the Grimes County Boy Scouts Council.

Married to the former Ruth Poe of Waverly, Texas, Mr. Winborn and his wife have two children. They are Mrs. Dorothy Klinge of Orange and C. W. Winborn, Jr. of Gladewater, Texas. The Winborns will live in Navasota following his retirement.

Houston J. Borque, T&D Department (garage) Lake Charles, retired Nov. 1. Mr. Borque has been with the company since 1953.

Originally hired as a garage mechanic helper in Lake Charles, Mr. Borque was promoted to utility man in 1954.

Mr. Borque is an army veteran having served from 1943 to 1946.

After some 44 years of service, **James W. Baird** retired on Nov. 1, as a shift supervisor in Production at Neches Station in Beaumont.

Mr. Baird first joined the company in 1927 as a helper, and from that time held a number of positions en-route to his last promotion as Station Engineer (Shift Supervisor) in 1954. Other positions include watch engineer, substation operator, dispatcher, head fireman and control operations foreman, to name just a few.

A native of Onalaska, Tex., Mr. Baird is married to the former Jimmie Louise Colley of Center. The couple have two children, Donna Dunlap and J. W. Baird, Jr.

Mr. Baird is active in civic affairs and served two years on the City Council, Race Hill Acres, and is past president of the Hardin County Voters League.

Retirement plans call for Mr. Baird to relax with his favorite hobbies which include hunting, fishing and working in his home workshop.

Henry B. Floyd, station supervisor in Production at Louisiana Station in Baton Rouge, retired Nov. 1, after 40 years of service.

Mr. Floyd joined the company as a helper in 1931, and since that time has held various jobs including that of fuel operator, assistant fireman, turbine operator, head fireman, station engineer and operating engineer.

Married to the former Helen Wileman of Baton Rouge, the Floyds have two children, Roland Ray Floyd and Rosemary Floyd.

Mr. Floyd is a deacon in the First Presbyterian Church of Baton Rouge, and plans to spend most of his time now at his camp on Grand Isle and traveling.

Mr. Floyd cites his fellowship with the men he met and worked with as his most memorable moment with the company.

Charlie H. Goodwin, collector in Customer Accounting in Lake Charles, retired Nov. 1, after 35 years of service with the company.

Originally from Bastrop, La., Mr. Goodwin joined our company in 1936 as a lineman in the Lake Charles Division. He was promoted to Serviceman First Class, and later to collector in 1959.

Mr. Goodwin and his wife Goldie have two stepsons, Herbert J. Simon of Columbus, Ohio and Paul Flanery of Houston, and five grandchildren.

The Goodwins belong to the Methodist Church.

Plans for the future, according to Mr. Goodwin, include working for the Calcasieu Sheriff's Department in Lake Charles. "I've got enough to keep me busy."



C. W. Winborn



Houston Borque



James Baird



Henry B. Floyd



Charlie H. Goodwin

People On The Move



E. G. "Ed" Hodges



Howard Mack



A. Milton Smith



Edwin Grimshaw



Thomas R. Whiddon, Jr.

Edwards G. "Ed" Hodges, Lake Charles Division manager since 1969, has been transferred to Beaumont and promoted to manager of Information & Data Services.

Mr. Hodges, a native of Giddings, Texas, was employed by the company as industrial engineer at Beaumont in 1949. He held various sales positions at Nava-sota and Lake Charles before advancing to division sales superintendent in 1963 and to division manager in 1969.

At Lake Charles, Mr. Hodges has been active in a number of organizations, including the chamber of commerce, Ki-wanis Club, United Appeals and Louis-iana Industrial Development Executives Association.

Mr. Hodges is an electrical engineering graduate of Texas A&M and has completed the Harvard University advanced management program.

Three promotions were announced in Lake Charles T&D during October.

Howard E. Mack, operating supervisor since 1969, advanced to operating super-intendent; **A. Milton Smith**, formerly di- vision engineer for Lake Charles, moved

up to operating supervisor, and **Edwin A. Grimshaw**, planning engineer at Beau- mont, was transferred to Lake Charles and promoted to division engineer.

Mr. Mack joined the company in 1950 and held various posts in Beaumont and Port Arthur before going to Lake Charles as division engineer in 1963.

Born in Port Arthur, Mr. Mack was reared and educated at Vinton, La. He attended McNeese State before com- pleting his bachelor's degree in electrical engineering at LSU.

Mr. Mack is active in the Lake Charles Evening Lions Club and is an adult leader in the Cub Scout program. He also serves as congregational president at St. John's Lutheran Church.

Married to the former Delpha Fuselier, Mr. Mack and his wife are the parents of two sons, James and Jeffrey.

Mr. Smith has been with the company since 1959. He moved up through a number of engineering positions in the Beaumont office and was transferred to Lake Charles as division engineer in 1969.

A native of Bryan, Texas, Mr. Smith received his electrical engineering degree from Texas A&M University. He also is working toward a master's degree in busi-

ness administration at McNeese.

Mr. Smith is active in the Lake Charles Jaycees.

He and his wife, the former Beverly Finke, have four children, James, David, Robin and Donna.

Mr. Grimshaw is a 10-year employee of the company. He started out in Beau- mont T&D and was transferred to System Engineering Planning in 1968.

Born in Bunkie, La., Mr. Grimshaw was graduated from LSU with a bachelor of science in electrical engineering.

He is a member of the Louisiana and Texas Professional Engineering Societies.

Mr. Grimshaw and his wife, the former Martina Stephens, have four children. They are Steven, Monya, Armand and Sean.

Thomas R. Whiddon, Jr., an employee of the company for 19 years, has moved up to director-personnel services at Beau- mont.

Mr. Whiddon formerly had served as supervisor-salary administration since 1961. He joined the company in 1952 as personnel clerk, and five years later he was promoted to personnel assistant.



H. L. Hammack

ing Engineers. He has been active in the Young Men's Business League, scouting, junior achievement and YMCA work, and is an elder at St. Andrew's Presbyterian Church.

Married to the former Mary Clark of New Orleans, Mr. and Mrs. Hollins have three children. They are Ruth, Clark, and Fred.

Marvin E. Kelley, 25-year employee of the company, has advanced to local superintendent for the Anahuac District.

Mr. Kelley formerly had served as serviceman at Anahuac. He joined the company in the line department at Liberty, Texas, in 1946. After progressing through various line classifications, he was transferred to Anahuac as serviceman in 1951.

A native of Deweyville, Texas, Kelley attended public schools there. He also completed a number of technical courses while serving with the Air Force from 1943 to 1945.

He and his wife, the former Leona Richard of Galena Park, Texas, have six children. They are Charles Kelley of Hankamer, Texas, Mrs. Carolyn Norton of Houston, and Paul, Scharlene, Cindy, and Marvin Jr. of Anahuac.

H. L. "Lee" Hammack and Lonnie J. Cobb have been promoted to new posts at Lewis Creek Station, near Conroe.

Mr. Hammack, formerly general maintenance supervisor at the station, has advanced to plant superintendent, and Mr. Cobb, mechanical design engineer at Beaumont, has been transferred to Lewis Creek and moved up to general maintenance supervisor.

Mr. Hammack, a native of Lampasas, Texas, was reared in Port Arthur and graduated from high school there. He holds a bachelor's degree in electrical engineering from Lamar University. He is a four-year veteran of the Air Force.

Mr. Hammack and his wife, the former Jane Boyum of Port Arthur, have two children.

Mr. Cobb was born in Bastrop, La. He holds a bachelor of science degree in mechanical engineering from Mississippi State University.



Wayne Sullins



Bill Hollins



Marvin E. Kelley



Lonnie J. Cobb

A native of Austin, Mr. Whiddon attended the University of Texas where he received his bachelor's degree in personnel management. He recently completed the Public Utilities Executive Program at Georgia Tech.

Mr. Whiddon is active in industrial relations activities in the Beaumont area. He also serves as a deacon and as chairman of the finance committee at North End Baptist Church.

Married to the former Nancy Gantt of Austin, Mr. Whiddon and his wife have three children. They are Rick, a freshman at Lamar University; Terry, a senior at French High, and Lisa, a French High freshman.

W. Wayne Sullins, system industrial engineer, has stepped up to director-power sales at Beaumont.

Mr. Sullins has been employed by the company for 14 years and has served as system industrial engineer since October, 1970. Starting out in Beaumont T&D, he later served in the project section of System Engineering. He was transferred to Beaumont Division industrial sales in 1962 and worked there for eight years.

A native of Pawnee, Okla., Mr. Sullins is an electrical engineering graduate of

Oklahoma State University. He served in the Army for two years, including 13 months in Korea.

Active in the Young Men's Business League of Beaumont, he also serves on the general power and heating committee of Edison Electric Institute.

Mr. Sullins and his wife, the former Betty White of Cushing, Okla., have four children. They are Renee, Rhonda, Danny and David. The family attends the First Baptist Church of Beaumont.

W. G. "Bill" Hollins has moved up to district superintendent - Beaumont Division after serving as industrial sales engineer for the past five years.

A native of New Orleans, Mr. Hollins joined the company in 1960. He worked in system engineering until 1966, when he was transferred to industrial sales at Beaumont.

Mr. Hollins attended Georgia Tech, where he received his bachelor's degree in mechanical engineering. He served in the Air Force for three years.

Mr. Hollins is a registered professional engineer in Texas and Louisiana and is a member of the American Society of Heating, Refrigeration and Air Condition-

SERVICE

TWENTY



James B. Flanagan, Jr.
Distribution
Beaumont

THIRTY YEARS



J. C. Sawyer
Distribution
Beaumont



Susie Stuart
Construction Production
Beaumont



Otis Gill
Distribution
Port Arthur



John E. Harrison
Treasury
Beaumont



Duane Kilmer
Production
Beaumont



John W. Lattimore
Distribution
Navasota

AWARDS

YEARS



Tom Mitchell, Jr.
Distribution
Beaumont



Edgar Perkins, Jr.
Treasury
Beaumont



Gene T. Skeen
Production
Beaumont



Larry Cleveland
Treasury
Beaumont



Willis E. Coon
Distribution
Beaumont



Lawrence Rainwater
Distribution
Beaumont



Thomas Wier
System Engineering
Beaumont



Cleveland Williams
Distribution
Beaumont

TEN YEARS

LETTERS

From employees, customers and friends of GSU

LAFAYETTE

Dear Mr. (J. W.) Lamm,

As Mayor of Maurice I would like to take this opportunity to thank you and Gulf States for the fine work you do in furnishing electricity to your subscribers.

To continually furnish electricity to that six-parish district located in the south central portion of the state very often ravished by electrical storms, tornadoes and hurricanes is to be commended. If the rest of your district is served as faithfully as you serve the community of Maurice under these extra-ordinary conditions, then truthfully we can say to Gulf States "thanks for being here."

I also want to commend you personally, Mr. Lamm, on the fact that on several occasions I have witnessed your cooperation in extending assistance to worthwhile civic organizations when called upon. This act shows the "compassion" that a large company can have when the men who run them have a sense of civic responsibility along with its commercial obligation.

Let me thank you again for all the good work you have rendered to our community in the past, and which I know will continue in the future. We are indeed proud to say that we are being served by Gulf States Utilities Company of Lafayette. Also your supervisor and employees.

Cordially yours,

Corbette A. LeBlanc, Sr.
Mayor, Village of Maurice

BATON ROUGE

Dear Mr. (Virgil) Shaw:

I would like to take this opportunity to thank Gulf States Utilities for service rendered during hurricane Edith.

A very special thanks to Mr. Exner and his staff of three men, who came to our home and worked so diligently to provide electrical power for us, until the power at Gulf States could be restored.

My husband has been totally paralyzed for two years due to a stroke. He is a heart patient and has to be administered oxygen at times. He is unable to swallow and is fed through a levine tube. The only way to prevent him from choking to death due to his inability to cough or swallow is by using a suction machine, which is run by electricity. I am sure you can understand my reason for being so concerned when we have power failure.

For the concern shown by Mr. Exner and his staff I shall be forever grateful. It is wonderful to know that we have some people left in this world who are concerned about their fellowman, and I think Gulf States is very fortunate to have men like these with their company.

To Mr. McKnight and the other employees whom I talked with and who were so kind and concerned, a special thanks.

In behalf of my husband and myself, thanks so much Mr. Exner and staff for services rendered. Your kindness and concern for people who are less fortunate than we, shall always be remembered.

Sincerely,

Mrs. Reginald A. Walst, Sr.

LAFAYETTE

Dear Mr. (Leonard) Ernst:

On behalf of Offshore Logistics, I would like to thank you for the understanding, co-operation and effort which you and your organization put forth last night to get power restored to Perry Bridge and as a result our boats back on the job.

I know that it was quite late when we finally found out the exact situation, and I am quite sure that your crews had put in some very long hours. We certainly appreciate their extra effort to get us out of the jam which Edith put us in and back in service to our customers.

Sincerely yours,

Burt H. Keenan
President
Offshore Logistics, Inc.

PORT ARTHUR

Dear Sir, (Jim Stelly)

I would like to take a moment to say "thank you" for the nice and quick service in restoring our power this morning. We lost our electricity due to the storm about 5:30 a.m. and by 10:00 a.m. it was restored! I know this surely must have been a very busy time for you and all your men, therefore I would like to show my appreciation by saying "Thank You!"

Sincerely,

Christine G. Buckley

... more letters

BEAUMONT

Gentlemen:

On behalf of the membership of Trinity United Methodist Church, I would like to express our appreciation for the display ad appearing in the Beaumont Enterprise and Journal Saturday, September 18.

Thank you for your support in making this service possible to area churches. Our many ministries can be enhanced through coverage of this type.

Sincerely yours,
Garnet R. House
Trinity United Methodist
Church

ANAHUAC

Dear Gulf States:

Thank you for sponsoring my calf. I will try to keep you a good record. I will try to win for you. I will take good care of him. I am glad you are my sponsor.

I am going to get my calf from Mr. Thomas Sturrock in Anahuac. You are welcome to come see him.

Thank you,
Kathy McKey

Editor's Note: Kathy is a third grader at Anahuac Elementary School and the daughter of Mr. and Mrs. Lonnie McKey of Wallisville. We know that the calf will have excellent care with Kathy and wish her the best of luck.

BATON ROUGE

Dear Sir:

I would like to express our appreciation to one of your employees for helping us in an emergency situation.

On September 16th, due to Hurricane Edith, we lost the power feeding our Woodlawn Office. At that time we activated our emergency generator and operated from this power supply to maintain service.

During the night of September 17th our emergency generator failed, and we were forced to operate from our emergency batteries. At 7 AM on September 18th our emergency batteries began to fail, and we lost service from the Woodlawn Office.

We placed an emergency call to your office, and Mr. J. R. Stewart reacted to our call with his personal attention. He dispatched two men to this location and directed them by mobile, until they located the trouble with your circuit, and restored our power. Because of Mr. Stewart's fast and efficient action, we had this office back in operation in less than two hours. Since we are also a public utility and know the problems involved in restoring service at times like this, we are deeply appreciative of Mr. Stewart's help.

Would you please pass our thanks along to him.

Yours truly,

C. K. Elkins, Jr.
Division Operations Manager

BATON ROUGE

Gentlemen:

You deserve a great deal of commendation for the magnificent effort expended in restoring electrical power, particularly to my residence. To be without power for a little over 24 hours in the face of such tremendous destruction is amazing. Our family owes you a measure of consideration and we're not likely to forget.

Thanks.

Yours truly,

Mr. R. J. Nowacki
11154 Robin Hood Drive
Baton Rouge, La.

HUNTSVILLE

Dear Mr. (Frank) Robinson:

On behalf of the Huntsville Jaycees, I would like to express my deep appreciation for your assistance in making service available to the carnival which we recently sponsored. I realize that you were given no advance notice that we would need the service, but your response was overwhelming.

If the Jaycees or I can ever be of service to you, please do not hesitate to call. Thanks again.

Sincerely,

Jerry Hayley
President



REPORTERS

If you have any news for "Plain Talks," simply send the information to one of the following local reporters. They will be happy to assist you in getting the material to the Editor.

BATON ROUGE: Henry Joyner, Margie Force (T&D), Fay Hebert (T&D), T. Boone Chaney (T&D), Melanie Dollar (T&D), Charles L. Miller (T&D), Jack Gautreaux (T&D), Clyde Cannon (T&D), James W. Bello (T&D), Beverly Hayden (Gas), Mel Nezant (Sales).

BEAUMONT: Linda McSwain (S.C.), Bill Toups (S.C.), Barbara Lindsey, Ann Ogden, Edy Waltmon, Linda Marks.

CALVERT: Janis E. Wilganowski.

CLEVELAND: Pat Jones.

CONROE: Frances Elliot.

GONZALES: Billy Fortenberry.

HUNTSVILLE: Priscilla Chandler.

JENNINGS: Earl Mayfield.

LAFAYETTE: Bobbie Denais.

LAKE CHARLES: Johnnie Harris (T&D)

LA. STATION: Leslie Lemoine

MADISONVILLE: Wanda H. Tinsley.

NAVASOTA: Betty Dickschat, Nina Ruth Bay.

NECHES STATION: Hazel Higginbotham

NELSON STATION: Martha Caldwell

ORANGE: Davie Carpenter

PORT ALLEN: Adele Vavasseur.

PORT ARTHUR: Sue Williams, Lorraine Dunham (S.C.).

SABINE STATION: Kathleen Fuller.

SILSBEE: Maxie Bell.

SULPHUR: Pearl Darbonne.

WILLOW GLEN: Dora Landaiche.

WOODVILLE: Alene Waggoner.

ZACHARY: Janette Lane.

(Editor's Note: If any of the above reporters are no longer reporting or with the company, we would appreciate knowing about it. This holds true also if any reporter's name has been omitted.)

BATON ROUGE



Getting ready for commencement exercises at dancing school are Angela Lindsly (left) and Tammie Oubre (right). Angela is the granddaughter of Calvin Oubre, and Tammie is his daughter. Mr. Oubre is a mechanic first class at Louisiana Station in Baton Rouge.

BEAUMONT



Mr. and Mrs. Rex Lee were the guests of honor recently at a retirement party held in the main office building for the former Beaumont Division Manager. Mr. Lee retired Nov. 1 after more than 40 years of service with the company.

ORANGE



Ollie H. Schultz, Line Department in Orange, took this picture of his five grandchildren when they were gathered together recently. Left to right the children are, Yovonne Mayfield, Cara Louise Nance, Mark Mayfield, Lowell Nance and Amy Mayfield.



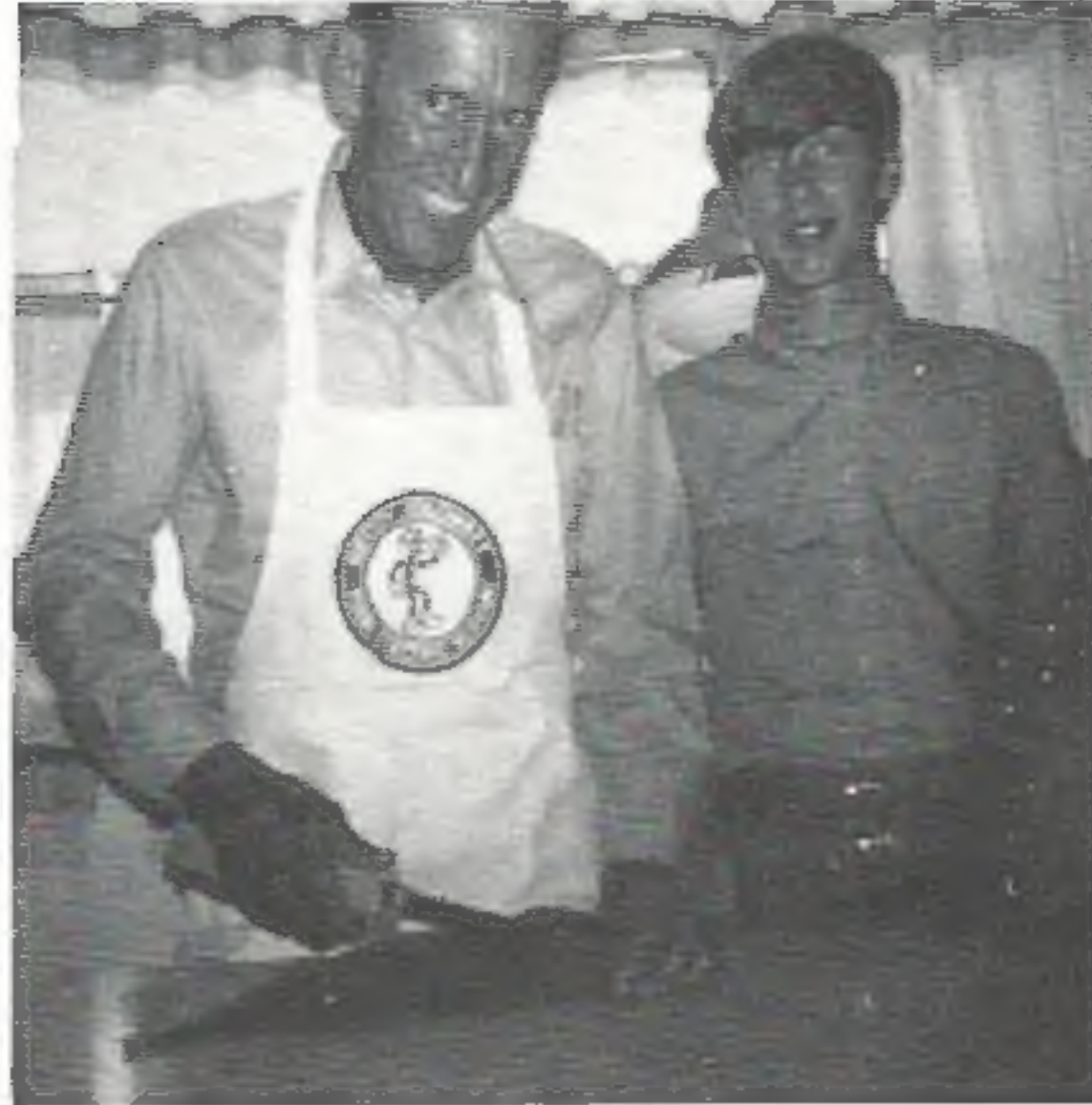
Kellie Dawn Lingo, six-year-old daughter of Mr. and Mrs. Don Lingo of Alexandria, La., and niece of Robert C. DeLattle, T&D Engineering, Beaumont, was named first runner-up in the World Our Little Miss Pageant in Miami, Fla. Competing against girls from all over the country and abroad, Kellie narrowly missed the title. She is the reigning Miss La Petite of Louisiana.

DAYTON



Pretty Babette Brown, a 1971 graduate of Dayton High School, has pledged Kappa Chapter of Zeta Tau Alpha Sorority at the University of Texas in Austin. Babette is the daughter of Mr. and Mrs. Gene E. Brown. Gene is a serviceman for the company and Babette is a former summer employee. Babette is also active in the Samaritan singing group and campus crusade for Christ.

PORT ARTHUR



Lester C. Boudreaux, Port Arthur serviceman, was on a noon-time television show on Channel 4 recently. Lester demonstrated the art of filleting a fish with an electric knife using only four strokes. He completely cleaned and filleted the fish for cooking along with the able help of his son Mark.



Linda Breaux, second from left, was honored by her friends with a party given in the Port Arthur office prior to her leaving the company. Linda will soon be a mother. On hand for the party was, left to right, Susan Bigelow, Linda, Rosemary Vaught, Jim Stelly and Gayle Stoute.



Sherilen DeSaw, pretty 17-year-old daughter of Senior Engineering Assistant L. W. DeSaw of Beaumont, was judged second runner-up in the recent Miss Teenage Beaumont contest. Sherilen is a senior at Nederland High School, and a member of the Civic Ballet and the Westernaire Drill Team.



James Lombard, second from left, was honored at a reception recently prior to his retirement after 25 years of service in the Port Arthur Division. Division Manager Randy McAlpine, left, and George Irwin, division accounting supervisor, were on hand along with Mrs. James Lombard for the event.

dis GRUNT lings

HEY! WISE UP HARRY.
GET YOURSELF A
SECRETARY.



A WHAT?



A SECRETARY.
THAT'S A GAL TO
DO ALL THAT
CHISELING
FOR YOU.



NO, THANKS!



I CAN MAKE OUT AN
EXPENSE ACCOUNT
BY MYSELF.



DICK WILSON © 1969



Welcome Aboard!

SYSTEM DEPARTMENTS

System Sales

Perkins, Jacque K., Beaumont, Steno - Res & Comm Sales Prom

System Treasury

Fonteno, Loyce M., Beaumont, Clerk - Gen Acctg (Accts Payable)

Brumley, Linda R., Beaumont, Clerk - Gen Acctg (Stores & Salv)

Dixon, Betty T., Beaumont, Clerk - Gen Acctg (Order Proc)

Gracey, LeNelle N., Beaumont, Clerk - Gen Acctg (Stores & Salv)

BEAUMONT DIVISION

Distribution

Montee, Barry W., Beaumont, Helper-T&D Dept (S/Sta)

Allen, James R., Jr., Beaumont, Helper-T&D Dept (Line)

Stieve, James F., Orange, Helper-T&D Dept (S/Sta)

Ivy, James M., Woodville, Helper-T&D Dept (Line)

Sales

McLauchlin, Bethany H., Beaumont Home Service Advisor-Jr

Treasury

Corbello, Donna R., Beaumont, Stenographer - Cust Acctg

Collins, Virginia W., Beaumont, Clerk - Cust Acctg

PORT ARTHUR DIVISION

Distribution

Anderson, Dwight E., Port Arthur, Laborer I - T&D (Bldg & Grnds)

Larson, Jo D., Port Arthur, Dept Clerk - T&D (Eng)

Sales

Gallio, Faith, Port Arthur, Floor Saleslady-Trainee (Div Sales)

WESTERN DIVISION

Treasury

Winkelmann, Dianna L., Cleveland, Local Office Clerk

Davis, John O., Cleveland, Meter Reader

BATON ROUGE DIVISION

Production

Corley, Johnnie R., Baton Rouge Operator's Helper (La Sta)

Gas Department

Curtis, James M., Baton Rouge, Engr Helper - Gas Dept

Distribution

Brister, John W., Jr., Baton Rouge, Helper-T&D Dept (Line)

Bryer, Alton R., Baton Rouge, Helper-T&D Dept (Line)

Temple, William G., Baton Rouge, Helper-T&D Dept (Line)

Root, Emmet E., Baton Rouge, Helper-T&D Dept (S/Sta)

Burns, Henrietta B., Baton Rouge, Dept Clerk - T&D (Serv)

Sales

Dardenne, Robert M., Baton Rouge, Residential Sales Repr

Treasury

Rodriguez, Maxie M., Jr., Baton Rouge, Meter Reader

Carr, John H., Jr., Baton Rouge, Meter Reader

Falgoust, Molly F., Baton Rouge, Clerk - Cr & Col

Erskins, Beth G., Baton Rouge, Clerk - Custs Rela

Roberson, Tannalyn G., Baton Rouge, Clerk - Custs Rela

Carmichael, Gail S., Baton Rouge, Clerk - Custs Acctg

Graves, Robert L., Baton Rouge, Storeroom Assistant

LAKE CHARLES DIVISION

Production

Nichols, David E., Lake Charles, Equipment Operator (Nelson Sta)

Distribution

Carter, Wayne D., Lake Charles, Engr Helper - T&D (Eng)

Long, Carolyn M., Lake Charles, Dept Clerk - T&D (Eng)

Boudreaux, Lester A., Lafayette, Helper-T&D Dept (Line)

Treasury

Constance, Tommie D., Lake Charles, Clerk - Cust Acctg

Spell, Gwendolyn R., Lafayette, Clerk - Cust Acctg

MANAGEMENT AND/OR PART-TIME EMPLOYEES

Moore, Roger N., Beaumont, Nuclear Planning Engr (Constr-Prod)

Smith, Gary J., Beaumont, Admn Accountant - Acctg Operns (Plant)

Klover, William J., Baton Rouge, Nuclear Staff Asst (Constr-Prod)

Hendry, Ronald L., Baton Rouge, Engineer - T&D (Eng)

*Mason, Michael E., Beaumont, Engr Helper - Eng Dis (DEC-Drftg)

*Davis, Beverly A., Beaumont, Dept Clerk - Inf & Data Serv (Recd-Dupl)

*Wolcott, Jean M., Beaumont, Dept Clerk - Inf & Data Serv (Records)

*Maher, Paulette, Beaumont, Dept Clerk - Inf & Data Serv (Records)

*Hockless, Gwendolyn J., Beaumont, Dept Clerk - Eng Des (DEC-Drftg)

*Eakes, Drusilla, Beaumont, Personnel Dept Clerk

*Brown, Vickie H., Baton Rouge, Clerk - Cust Acctg

Barnwell, Thomas K., Beaumont, Student Engr - Eng Plan (Plann)

Miller, Don A., Beaumont, Student Engr - Eng Des (Des Eng-Const)

*Part-time employee

Sue Says "Try These"

Hot Spiced Tea

3 Tbsps. instant tea with lemon
2/3 cup Tang
1/4 tsp. cinnamon
1/8 tsp. nutmeg
1/8 tsp. cloves
1/2 cup sugar

Mix dry ingredients. Add 2 or 3 rounded teaspoonsful to 1 cup hot water as needed. Entire mixture may be added to 2 quarts of hot water to make 16 servings.

Tantalizing Chicken

6 chicken breasts
1 cup flour
1 Tbsp. salt
1/2 tsp. pepper
1 cup Italian salad dressing mix

Coat chicken by placing in a paper bag with flour, salt and pepper. Place pieces in baking dish, skin side down, add dressing mix and bake at 325 degrees for 20 minutes. Remove from oven, turn pieces skin side up and bake for an additional 25 to 35 minutes, depending upon size of chicken.

Tiny Pecan Pies (Good for parties and holiday gifts)

One 3 oz. pkg. cream cheese
1/2 cup butter
1 cup sifted flour

Soften cream cheese and butter at room temperature. Blend and stir in flour. Chill about 1 hour. Shape into 2 dozen 1 inch balls. Place dough on bottoms and sides of tiny muffin tins.

Filling

1 egg
3/4 cup brown sugar
1 Tbsp. butter
1 tsp. vanilla
Dash salt
2/3 cup broken pecans

Combine first five ingredients and stir until smooth. Divide half the pecans among pastry lined cups, add filling and top with rest of pecans. Bake at 325 degrees for 25 minutes. Cool and remove from pans.

Sue's Chocolate Chip Cookies

(These are always in a cookie jar at my house and everyone knows where to find it)

2 1/2 cups sifted flour
2 tsps. soda
1/4 tsp. salt
1 cup shortening or butter
3/4 cup brown sugar
3/4 cup granulated sugar
2 eggs
1 tsp. vanilla
1/2 cup chopped pecans
One 6 oz. pkg. chocolate morsels

Sift flour, soda and salt together. Cream shortening and sugar. Add eggs one at a time. Add vanilla, then flour mixture. Stir in nuts and chocolate morsels. Drop by teaspoonsful on a greased cookie sheet. Bake at 325 degrees for 10 to 15 minutes. Makes 5 to 6 dozen 2 inch cookies.

Note: Butterscotch or cherry chip morsels may be substituted for chocolate morsels.

Shrimp Sauce Piquante

3 Tbsps. shortening
3 Tbsps. flour
2 strips celery
1 green pepper, chopped
1/2 large onion, chopped
3 green onions or 2 Tbsps. dehydrated onion
Salt
Pepper
Garlic salt
1 tsp. seafood seasoning
Dash crushed, red pepper
1/3 cup sugar
1 Tbsp. lemon juice
3 cups water
One 8 oz. can tomato sauce
1 1/2 lbs. peeled and deveined shrimp

Prepare roux by melting shortening in skillet and browning flour on "Third" heat position. Add celery, green pepper and onions. Saute until tender. Add remaining ingredients and simmer for 1 hour. Add shrimp and cook for 20 to 30 minutes. Serve over rice. Makes 4 servings.



Sue Williams, Home Service Advisor, has been employed by Gulf States Utilities for six years. Her speciality is kitchen planning and lighting for the home and yard.

Mrs. Williams is a native of Port Arthur. She attended Port Arthur schools and received her B.S. degree in Home Economics from Lamar University. She taught home economics and managed the cafeteria at Stephen F. Austin in Port Arthur for 3 years.

Mrs. Williams is married to James M. Williams and they have a nine year old daughter, Pamela Sue. They are members of the United Methodist Temple. Mrs. Williams is past president of Sabine Area Home Economists and past secretary and newsletter editor for South Texas Home Economists in Business. She is currently serving as education chairman of South Texas HEIB. She is also affiliated with American Home Economics Association.

Bulk Rate
U. S. POSTAGE PAID
Beaumont, Texas
Permit No. 11

AFTER FIVE DAYS RETURN TO



P. O. BOX 2951
BEAUMONT, TEXAS

RETURN POSTAGE GUARANTEED

Prevent Accidents

REACTION OF FIBERS TO FIRE

Glass This fiber in its natural color is noncombustible, although glass fabrics will burn when treated with certain finishes or blended with some flammable fiber.

Wool The least flammable of the natural fibers, wool is slow to ignite and is naturally somewhat flame-resistant.

Silk Silk in its natural state is not very flammable but materials added to give body as well as its construction affect its burning rate. Sheer silk will burn more readily than a heavy silk yarn.

Modacrylics These synthetics (Verel, Dynel)* burn only when in contact with flame. Once ignition source is removed they are self-extinguishing.

Saran These synthetics (Rovana, Velon)* soften and char when exposed to flame, but will not support combustion.

Nylon The rate of burning varies with the type of weave. Nylon melts before burning. Some forms of nylon (Nomex)* are flame resistant.

Olefins These synthetic fibers (Herculon, Polycrest, Volpex)* do not resist flames, but burn slowly when directly exposed to ignition source.

Polyesters Synthetic fibers (Dacron, Fortrel, Kodel, Vycron)* will burn as long as ignition source is present; self-extinguishing when removed. If blended with a more flammable fiber they continue to burn.

Acrylics (Acrilan, Creslan, Orlon, Zefran)* These synthetic fibers melt and generally burn at a slower rate than either cotton, rayon or acetate.

Acetate Synthetic fibers of acetate and triacetate (Chrom-spun, Celanese, Acele, Arnel)* are slower burning than cellulose fibers, but are moderately flammable, and melt before burning.

Cellulose Rayon fibers are basically cellulose; therefore rayon has very much the same burning characteristics as cotton and linen. All burn readily unless treated with chemicals to make them flame-resistant.

*Trademarks